



Gulf of Mexico Harmful Algal Bloom Bulletin

6 November 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: November 2, 2006

Conditions Report

A harmful algal bloom has been identified from southern Pinellas to central Collier County. Today through Tuesday patchy low impacts are possible in southern Pinellas County and patchy very low impacts are possible from Manatee to northern Lee County. On Wednesday, patchy high impacts are possible in southern Pinellas County, patchy moderate impacts are possible from Manatee to northern Lee County and patchy very low impacts are possible in central Collier County. No impacts are expected from southern Lee to northern Collier County today through Wednesday.

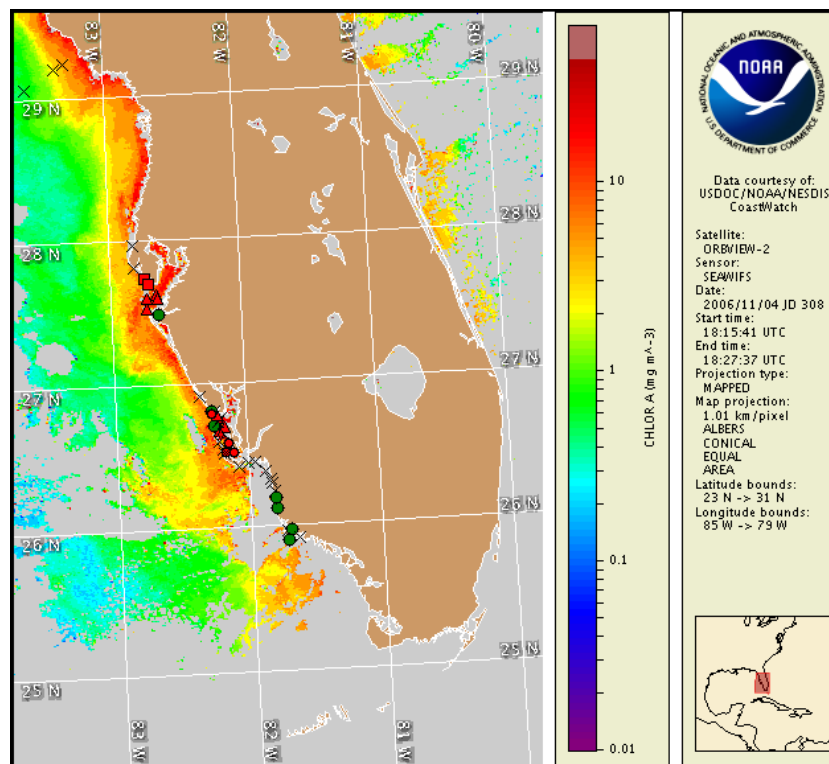
Analysis

A harmful algal bloom persists from southern Pinellas to central Collier County. Sampling efforts last week identified high concentrations of *K. brevis* in southern Pinellas County, very low to medium concentrations from Manatee County to the Pine Island Sound Region, background concentrations or lower from southern Lee to northern Collier County, and very low concentrations at Caxambas Pass in central Collier County (FWRI, 10/30-11/2). Chlorophyll concentrations remain elevated offshore northern Manatee County in a band from 27°35.6'N 82°47.5'W to 27°23.8'N 82°53'W and alongshore Sarasota County from 27°19.4'N 82°38.5'W to 26°54.8'N 82°24.5'W. Elevated chlorophyll (up to 13 µg/L) is also present offshore the northern Pine Island Sound region, Lee County at 26°37.6'N 82°19.3'W and 26°42.5'N 82°19'W. Recent satellite imagery in southern Lee and Collier County has been obscured by clouds. Impacts should be minimal through Tuesday, with greater impacts expected on Wednesday and Thursday as winds shift onshore. Conditions over the past several days have been, and continue to be, favorable for upwelling and *K. brevis* intensification. Further southerly movement of the bloom is possible through Thursday.

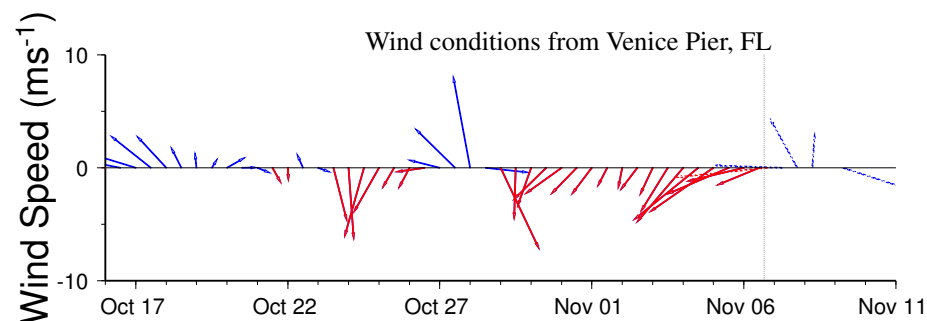
~Fisher, Urizar

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.

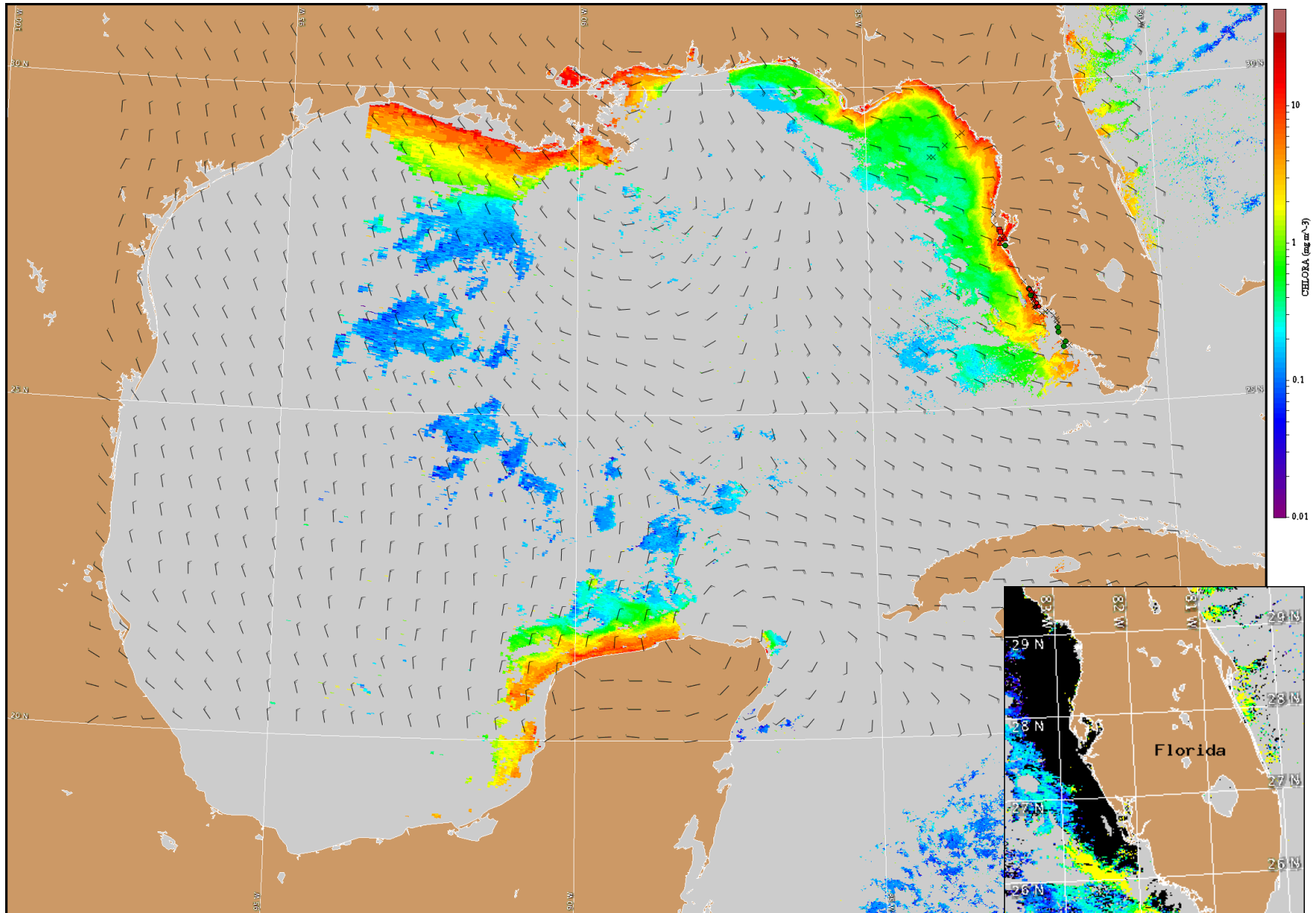


Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit <http://research.myfwc.com>. Cell concentration sampling data from October 27-November 2 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

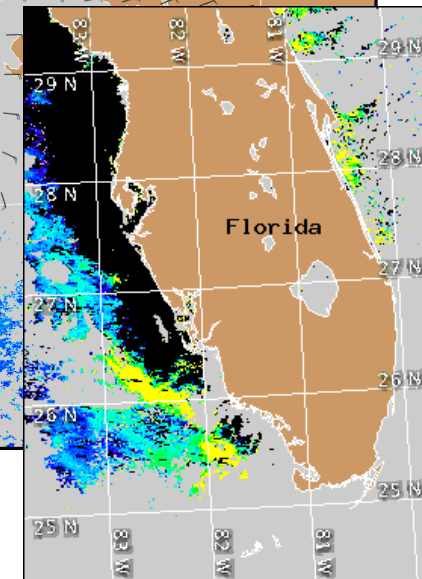


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Northeasterly winds today shifting southeasterly by Tuesday (10-15kts, 5-8m/s). Southerly winds Tuesday night shifting southwesterly to westerly on Wednesday (10-15kts). Northeasterly winds expected Thursday.



Satellite chlorophyll image and forecast winds for November 7, 2006 12Z with cell concentration sampling data from October 27-November 2 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

